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(54) PTC COMPOSITE MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a reusable PTC composite material which has a low room- temperature resistivity, a transition temperature of <200°C, and a high heat resistance and causes large resistivity-jumping at the transition temperature and a low power loss.

SOLUTION: This PTC composite material contains; (i) a matrix of a ceramic material having either one of a cristobalite crystal structure to which with the oxide of at least element selected from among Be, B, Mg, Al, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, and W and a tridymite crystal structure, and (ii) a conductive phase containing at least one kind of metal, silicide, nitride, carbide, or boride and scattered through the matrix.

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